Sven Grundmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8672798/publications.pdf

Version: 2024-02-01

24	481	840776 11	752698 20
papers	citations	h-index	g-index

24	24	24	365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards In-Flight Applications? A Review on Dielectric Barrier Discharge-Based Boundary-Layer Control. Applied Mechanics Reviews, 2016, 68, .	10.1	138
2	The Influence of Cylinder Head Geometry Variations on the Volumetric Intake Flow Captured by Magnetic Resonance Velocimetry. SAE International Journal of Engines, 0, 8, 1826-1836.	0.4	44
3	Volumetric intake flow measurements of an IC engine using magnetic resonance velocimetry. Experiments in Fluids, 2014, 55, 1.	2.4	40
4	Experimental investigation of helical structures in swirling flows. International Journal of Heat and Fluid Flow, 2012, 37, 51-63.	2.4	35
5	Estimation of the measurement uncertainty in magnetic resonance velocimetry based on statistical models. Experiments in Fluids, 2016, 57, 1.	2.4	31
6	Influence of Channel Geometry and Flow Variables on Cyclone Cooling of Turbine Blades. Journal of Turbomachinery, 2016, 138, .	1.7	25
7	IR thermography for dynamic detection of laminar-turbulent transition. Experiments in Fluids, 2016, 57, 1.	2.4	24
8	Phase-locked 3D3C-MRV measurements in a bi-stable fluidic oscillator. Experiments in Fluids, 2013, 54, 1.	2.4	22
9	Phaseâ€contrast singleâ€point imaging with synchronized encoding: a more reliable technique for in vitro flow quantification. Magnetic Resonance in Medicine, 2019, 81, 2937-2946.	3.0	18
10	Magnetic resonance velocimetry in high-speed turbulent flows: sources of measurement errors and a new approach for higher accuracy. Experiments in Fluids, 2020, 61, 1.	2.4	18
11	Considerations for the design of swirl chambers for the cyclone cooling of turbine blades and for other applications with high swirl intensity. International Journal of Heat and Fluid Flow, 2020, 86, 108670.	2.4	17
12	In-flight active wave cancelation with delayed-x-LMS control algorithm in a laminar boundary layer. Experiments in Fluids, 2016, 57, 1.	2.4	12
13	Commissioning of an MRI test facility for CFD-grade flow experiments in replicas of nuclear fuel assemblies and other reactor components. Nuclear Engineering and Design, 2021, 375, 111080.	1.7	11
14	CFD validation using in-vitro MRI velocity data â€“ Methods for data matching and CFD error quantification. Computers in Biology and Medicine, 2021, 131, 104230.	7.0	11
15	The 2019 MRV challenge: turbulent flow through a U-bend. Experiments in Fluids, 2020, 61, 1.	2.4	10
16	An unbiased method for PRF-shift temperature measurements in convective heat transfer systems with functional parts made of metal. Magnetic Resonance Imaging, 2021, 75, 124-133.	1.8	8
17	Equivalent Scalar Stress Formulation Taking into Account Non-Resolved Turbulent Scales. Cardiovascular Engineering and Technology, 2021, 12, 251-272.	1.6	5
18	Phaseâ€contrast acceleration mapping with synchronized encoding. Magnetic Resonance in Medicine, 2021, 86, 3201-3210.	3.0	4

#	Article	IF	Citations
19	Towards Analyzing the Influence of Measurement Errors in Magnetic Resonance Imaging of Fluid Flows. Acta Cybernetica, 2020, 24, 343-372.	0.6	3
20	Reynolds stress tensor and velocity measurements in technical flows by means of magnetic resonance velocimetry. TM Technisches Messen, 2022, 89, 201-209.	0.7	3
21	Comparison of Two Different Interval Techniques for Analyzing the Influence of Measurement Uncertainty in Compressed Sensing for Magnet Resonance Imaging. , 2020, , .		1
22	Combined temperature and velocity field measurements in thermal fluid systems with magnetic resonance velocimetry. TM Technisches Messen, 2022, 89, 168-177.	0.7	1
23	MRV-validated numerical flow analysis of thrombotic potential of coronary stent designs. Current Directions in Biomedical Engineering, 2019, 5, 77-80.	0.4	0
24	Hybrid datasets: Incorporating experimental data into Latticeâ€Boltzmann simulations. Engineering Reports, 2020, 2, e12177.	1.7	0